

Industry Collaborative laboratories & Centres of Excellence

To align with the thrust areas supporting the Institute's vision and mission, a remarkable distinction has been achieved through the establishment of numerous industry-collaborative laboratories and Centres of Excellence. These initiatives, under the Industry-Institute Interaction Program, are dedicated to training, skill enhancement, and student placement, thereby fulfilling the objectives of Outcome-Based Education (OBE). Specialized laboratories have been set up, with detailed descriptions of their facilities and associated training activities provided below.

INDUSTRY COLLABORATIVE LABORATORIES

AICTE IDEA LAB



The **AICTE IDEA Lab** (Innovation, Design, and Entrepreneurship Academy) is an initiative by the All India Council for Technical Education (AICTE) aimed at fostering creativity, innovation, and problem-solving skills among students and faculty. The primary objective of the AICTE IDEA Lab is to create an ecosystem that encourages the application of theoretical knowledge to practical solutions, promoting innovation, entrepreneurship, and interdisciplinary learning. The lab typically provides access to advanced technologies, such as 3D printing, robotics, IoT, AI/ML, and more, fostering a culture of innovation and entrepreneurship in educational institutions. (Under Processing)

CENTRES OF EXCELLENCE

APPLIED ROBOTIC CONTROL LAB



APPLIED ROBOTIC CONTROL LAB (ARC)

The APS European Centre for Mechtronics (ECM), based in Aachen, Germany, has over 30 years of expertise in robotics, sensor technology, and ICT, supporting SMEs in adopting innovative technologies. For the first time, ECM is expanding beyond Germany through the **Indo-European Skilling Centers for Mechtronics and Industrial Robotics** to create an ecosystem in Andhra Pradesh (AP) that equips students with advanced technical skills for global industry needs.

In partnership with APSSDC and local institutions, this program aims to train over 20,000 students in industrial robotics and automation over five years, aligning with APSSDC's mission to make AP a global skilled workforce hub. The initiative includes industry visits, workshops, and Job Melas to bridge academia and industry, enhancing student career prospects and fostering innovation.

1. INDO-EUROPEAN SKILLING CENTERS

APSSDC and Government of Andhra Pradesh, creating a world class ecosystem in the fields of industrial manufacturing and robotics, collaborating with German partners ECM and Industry partners. As of now 31 colleges/universities created this infrastructure to train students at the bachelor's engineering level, preparing them to be industry ready by the time of graduation. 65 faculties are trained in Germany to support students in their college level knowledge sharing activities.

APSSDC-ECM-Convergence Training Centres

- A one of its kind initiative of Government of Andhra Pradesh through APSSDC in collaboration with European Centre for Mechtronics, Aachen, Germany to developing a world class ecosystem in the fields of industrial manufacturing and robotics.



MICROCHIP EMBEDDED SYSTEMS LAB



A Centre of Excellence (CoE) with Microchip aims to foster innovation, research, and development in embedded systems and semiconductor technologies. By leveraging Microchip's advanced products and solutions, the CoE focuses on accelerating the design and prototyping of cutting-edge applications in areas such as IoT, automotive, industrial automation, and communication systems. It provides a platform



MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE



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Pulladigunta (V) Vatticherukuru (M), Guntur (Dist.)

for collaboration, training, and technical support, empowering students to work on industry-relevant projects. After six months, students are given the opportunity for an industrial visit to Microchip, offering hands-on experience and valuable insights into real-world applications, bridging the gap between academia and industry.

